

☼ * ○ ● SYMBOLS FOR STARS IN ORDER OF BRIGHTNESS

smoke ring, but it is actually a globe of gas, which is made to glow by a star at the center. It is the most familiar example of the rather rare group of planetary nebulae.

Their name comes not from the fact that they have anything to do with planets, but merely because they look something like planets with a small telescope. Some, if not all, may be the remains of "new" stars—stars which in past ages have suddenly flashed out for a brief period with many times their normal brilliance. If this is the case, most of our present planetaries will have disappeared

after many thousands of years, but others will by then have taken their places.

Celestial Timetable for September

Sept.	EWT	
2	4:21 p.m.	Full moon.
3	2:00 a.m.	Moon nearest, distance 220,000 miles.
9	8:03 a.m.	Moon in last quarter.
11	2:23 a.m.	Moon passes Saturn.
17	7:00 a.m.	Moon farthest, distance 252,700 miles.
	8:37 a.m.	New moon.
19	6:54 a.m.	Moon passes Venus.
22	7:00 p.m.	Mercury farthest west of sun.
23	12:02 a.m.	Autumn commences in northern hemisphere.
	1:00 p.m.	Mercury passes Jupiter.
25	8:07 a.m.	Moon in first quarter.

Subtract one hour for CWT, two hours for MWT, and three for PWT.

Science News Letter, August 26, 1944

GENERAL SCIENCE

Guggenheim Fellowships

SIX SCIENTISTS are included among a group of 14 Latin-American scholars to whom Guggenheim Fellowship grants have been made. They will conduct research at various laboratories in the United States. Of the six, four are from Mexico and two from Argentina.

Three of the six Fellows in science are biologists. They are: Dr. Eduardo Caballero y Caballero of the National University of Mexico, who will conduct research in helminthology. Prof. Manuel Maldonado Koerdell of the University of Nuevo Leon, Mexico; he will work at the University of Kansas, in the field of comparative anatomy. Dr. Elisa Hirschhorn of La Plata, Argentina, whose researches on plant disease fungi will be carried on at the University of Minnesota and Harvard University. Dr. Rafael Aureliano Labriola, chemist at the University of Buenos Aires, will carry on studies of quantitative micro-analysis and of the techniques of hydrogenation at normal and high temperatures at the

University of Minnesota and the University of Wisconsin.

Prof. Alberto Barajas Celis of the National University of Mexico will conduct mathematical research on the theory of gravitation at Harvard University.

Guido Munch Paniagua, calculator in the National Observatory of Mexico at Tacubaya, D. F., will pursue studies in the field of theoretical astrophysics at the Yerkes Observatory of the University of Chicago, at Williams Bay, Wis.

Guggenheim Fellowships usually carry a stipend of \$2,000 for a year's study, plus additional sums to defray travel expenses. The Latin-American Fellowships were established in 1929.

Science News Letter, August 26, 1944

A postwar *under-water* tunnel to connect Copenhagen, Denmark, with Malmo, Sweden, is proposed; it would be 7½ miles long and have space for a two-lane highway and a one-way electric railway.

PUBLIC HEALTH

Polio Cases This Year Are Highest Since 1927

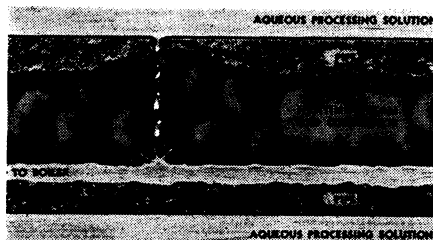
INFANTILE paralysis cases throughout the nation continued to increase during the week ending Aug. 12. Latest reports to the U. S. Public Health Service show a total for that week of 1,015, compared to 932 for the preceding week and 545 for the corresponding week in 1943, which was a big polio year.

The total number of cases so far this year, 5,009, is higher than for any year since 1927, Public Health Service records show.

Increases were reported in North Carolina, New Jersey, New York, Ohio, Illinois, Michigan and Minnesota. New York reported the largest number, 356, including 108 from New York City. Cases decreased in Kentucky, Virginia, Pennsylvania and Maryland.

Science News Letter, August 26, 1944

Game species of *migratory water-fowl* in North America have increased nearly 400% in the past nine years.



WANT TO STOP THAT LEAK?

Where steam is used for heating and the resulting condensate is returned to the boiler, there is, of course, danger that leaks in the heating coils will contaminate the water by admitting some substance dangerous to the boiler.

To guard against this, we recommend measurements of the extent to which the water will conduct a small electric current. This "conductivity" varies with any form of impurity, and the L&N equipment necessary can be either of two models:

If the operation of a signal light and/or a dump valve is all that is required, we recommend No. 4850 Signaling Conductivity Controller.

For a continuous, automatic record of condensate purity, in addition to a signal and/or operation of a dump valve, we recommend No. 33111 Micromax Signalling Recorder.

For further information, see Catalog N-95-163(1) on the Signalling Controller, or Catalog N-95-163 on the Micromax Controlling Recorder.

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